Lekhnath Damauli 220 kV Transmission Line Project
BMZ 2016 67 773
Package B: Substations
Re-tender

Response to Clarification Request
Pursuant to Bidding Documents, Part 1 - Bidding Procedures, Section I - Instructions to Bidders, Item 7.1

Response No. 4, 15 September 2024

№	Reference	Clarification Request	Response
1	Part III_Package B GC & PC 8.7 Delay damages for the Works	From the said clause, we understand 0.05% of the Contract Price per day of delay (with a maximum of 10% of Contract Value) shall be levied only on unexecuted portion of the contract price. Kindly confirm	It will be levied on the complete contract price
2	Part III_Package B GC and PC 14.2 Currencies and proportions	As per PC 14.2 - Currencies & Proportions: Advance payment will be made in USD only. As we shall be quoting Schedules in USD & NPR, kindly confirm how the advance on NPR quoted portion will be calculated and paid.	As stated in Section IX. "Particular Conditions (PC)", Part A - Contract Data, Subclause 14.2, Total Advance Payment is 10% Percentage of the Accepted Contract Amount Please read Clause 14.7 of Part B - Specific Provisions
3	Part III_Package B GC & PC 14.6 Minimum Amount of Interim Payment Certificates	As per the clause, minimum amount of Interim Payment Certificates is 1% of the contract amount but not less than 100,000 USD. For better financial management, we request to lower or remove the minimum amount of Interim Payment Certificates criteria.	Please follow the requirement as mentioned in the Bidding Documents
4	Part I_Package B ITB 16.2 Nominated Subcontractor	The Employer intend to use a nominated Subcontractor for the following Part: "Integration of the 220kV extension in Lekhnath and the forthcoming 20/132/33/11kV New Damauli substation into the existing National Load Dispatch Center/Emergency Control Center (LDC /ECC) shall be included in the scope of deliverables and services provided by the Contractor of the Project. as described in PART II, Employer's Requirements, Section VII-1 Project Description and Scope of works."	To ensure the legitimacy and fairness of the Bid Evaluation, special attention will be paid to this specific part of work and services during evaluation. These works are included in items 1.11.2 and 2.12.2 of Price Schedule I, II, III, IV, which are specifically dedicated to the interfacing with NLDC/ECC including all necessary cabling, cubicles, equipment and materials to complete the supply and the installation.

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		Therefore, for this specific part of work and services, the following subcontractor shall be considered by the Bidder in his Bid: • Original Manufacturer Load Dispatch Center, Siemens Ltd, India As there is only a single subcontractor nominated for this service, to ensure fairness we request you to share the rate contract finalized between nominated subcontractor M/s. Siemens and respective authority.	
5	Part III_Package B PC 14.16 Taxation	We request you to confirm the applicable rate of TDS for all Schedules (Supplies, Erection ESMP) as per the law of Nepal on present day.	As prevailing law of GoN
6	General	We understand that all the insurances mentioned in the tender clause can be purchased from any reputed Insurance company. Kindly Confirm.	All the insurances mentioned in the tender clause can be purchased from reputed Insurance companies.
7	Part I_Package B ITB 40.5	As per clause "If the Financial Bid, which results in the lowest Evaluated Financial Bid Price, is significantly lower than the Employer's estimate, the Employer shall require the Bidder to produce detailed price analyses for any or all items of the Schedules" We request you to provide the estimate for this Tender Package B : Substations.	Please refer to Response to Clarification Request No. 2, Item 179.
8	General	We understand the land for construction is already acquired by NEA and NEA will provide contractor encumbrance free land during award of contract. Any disputes arising against land acquisition of land provided by NEA during construction of works will be taken care by NEA. Kindly confirm	The Employer has acquired the entire project area. Right of access to site is dealt with in GC s/c 2.1 and corresponding s/c in Particular Conditions. The Employer will be responsible for the resolution of potential disputes over land acquisition and compensation process.
9	General	Please confirm that Right of Way for Access Road is in Employer's scope.	Please refer to Response to Clarification Request No. 2, Item 141.

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10	Part III_Package B GC & PC 4.2	We understand that performance security shall be submitted with validity only till the end of Defects Notification Period of 730 Days after completion of Works and shall not be required up to Extended Defect Liability period which is 1095 days in addition to the Defects Notification Period. Please confirm	As per Section X. Contract Forms, Performance Security, the guarantee shall be valid for at least 28 days from the date of contractual contract completion (including warranty obligations).
11	Part III_Package B PC 11.12 Critical Equipment	As per clause: "Crticial Equipment: Extended Defect Liability Period: 1095 days" We understand that performance certificate for the Project shall be issued after completion of Defects Notification Period only and not after the extended efects Liability Period. Kindly Confirm.	The necessary period of remedying of the defects or damages will be added to the Defects Notification Period for the damaged, as well as for other affected equipment or component of the Works. Performance Certificate shall be provided after the defects notice period.
12	Part III_Package B PC 14 Taxes and Duties	i. Please confirm, during the course of the project, any statutory variation in taxes and duties (viz. VAT, Custom duty, TDS, any other local taxes etc.) in Nepal shall be reimbursed to contractor. ii. Please add to the end of the paragraph as below: Custom Duty shall be issued to the Authorities within 3 days of submission of request for Duty payment by Contractor. In case of delay by Employer, the Contractor shall be entitled to time & cost reimbursement. Any detension or Demurrage due to delay in issuance of Custom Duty payment should be borne by the Employer based on the documentary evidence provided by the Contractor.	i. VAT and Custom duty only shall be reimbursed as per applicable law of GoN ii. No additional Clause is accepted
13	Part III_Package B PC 14.16 Taxation	Please confirm to the taxes and duties applicable for this project: i) Nepalese VAT on the offshore contract price is exempted for the project items.	i) Please refer to Response to Clarification Request No. 2, Item 137 ii) Please refer to Response to Clarification Request No. 2, Item 137

№	Reference	Clarification Request	Response
		ii) 1% Concessional custom duty applicable for the items imported from abroad. The same shall be reimbursable by NEA,	
14	Part III_Package B GC & PC 14.4 - Schedule of Payments	5% of the total or pro rata value will be held as retention up to the issuance of Performance Certificate. For better financial management we request that 5 % of retention value to be released against submission of a Bank Guarantee by the Contractor for the same amount.	The request is not a request for clarification pursuant to Parti I Bidding Procedures, Section I. Instructions to Bidders, Item 7. It is effectively a request of amendment to the Bidding Documents and as such it cannot be entertained.
15	Part III_Package B PC 17.6-Maximum total liability of the Contractor to the Employer	Maximum total liability of the Contractor to the Employer : 1.1 time contract amount. We request you to kindly accept the Maximum total liability of the Contractor to be 1 time the contract amount.	Please refer to Response to Clarification Request No. 2, Item 160
16	PC 13.8 & Section IV. Bidding Forms Conditions Applicable to Price Adjustment : The date of adjustment shall be the mid-point (180 days) of the period of manufacture of the power transformers."	As manufacturing period for various lots cannot be clearly defined and tracked at Tender stage and therefore to reduce the overall risk we request to reduce for date of price adjustment by 60 days prior to the date of dispatch of different lot of transformers.	Please follow the requirement as mentioned in Bidding Documents
17	Part III_Package B GC & PC 20.2 - Date by which	As per the clause, DAB shall be formed 28 days after the Commencement date.	Please follow the requirement as mentioned in Bidding Documents

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	the DB shall be appointed	As the DAB is only required if there is an unresolved dispute between the parties, we request that DAB may be formed within 28 days after a Party gives notice to the other Party of its intention to refer a dispute to a DAB. Kindly Confirm.	
18	General	Statutory approvals, Tree cutting, Forest clearance, site clearances, access to site and right of way are in the scope of Employer. Please confirm.	Please refer to Response to Clarification Request No. 2, Item 146
19	PC- 14.4 Schedule for Payments and Schedule I - Plant and Mandatory Spare Parts Supplied from Abroad	We understand that all the payments except 10% Advance payments shall be made through Irrevocable Letter of Credit under the Schedule No.1 Plant and Mandatory Spare Parts Supplied from Abroad. Please confirm.	Please refer to Response to Clarification Request No. 2, Item 155
20	Part III_Package B PC 14.2 Total advance payment 10% Percentage of the Accepted Contract Amount	We understand that this Advance payment is Interest free Advance. Please confirm	Please refer to Response to Clarification Request No. 2, Item 158
21	General	Consider the present market fluctuation situation, please consider Price variation for EHV and MV XLPE Cable	The request is not a request for clarification pursuant to Parti I Bidding Procedures, Section I. Instructions to Bidders, Item 7. It is effectively a request of amendment to the Bidding Documents and as such it cannot be entertained.
22	Schedule No II: Plant and Mandatory spare parts supplied within the	We understand from the specification & the line item description of the price schedule that the fast reconnection of the spare unit is through manual reconnection of the jumpers to the overhead auxiliary busbars. Please confirm.	Confirmed

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	employer's country, Item no. 1.1.2.5, OHL conductors for 220kV &132kV auxiliary busbar for fast reconnection of the spare transformer unit		
23	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item no. 1.7, LV auxiliary power supply system	We presume that the existing LV auxiliary power supply equipment including existing 110V DC system at Lekhnath substation are sufficiently rated with adequate spare feeders in order to cater the requirements of the 132kV bays which are proposed to be extended under this contract. Please confirm.	The 110V DC supply at Lekhnath substation is deemed sufficiently rated to accommodate the 132 kV bays to be extended. However, DC distribution cabinets required for two 132 kV bays to be extended are to be included in the scope of this package.
24	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item no. 1.5, 33kV Switchgear	We presume that the BCPU of respective 33 kV & 11 kV bays as mentioned under items 1.9.5 to 1.9.6 of Schedule No II: Plant and Mandatory spare parts supplied within the employer's country shall be an integral part of the respective swicthgear bays itself. We do not envisage separate relay panel for 33kV bays. Please confirm.	Confirmed
25	Schedule No II: Plant and Mandatory spare	We request to confirm acceptance of common relay & protection panel for both Bus Bar & Bus Coupler. Please Confirm.	It is understood that the clarification request refers to item 1.9.2 (D05). Confirmed, common panel for Bus coupler and Busbar Protections are acceptable, but separate protection relays shall be

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	parts supplied within the employer's country, Item No. 1.9- Protection & Control		provided for Bus Bar protection and Bus Coupler protection, as outlined in price sheet item 1.9.2 and VII-1, Clause 3.2.9.
26	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item no. 3.5.1.4- Surge arrester	Please clarify the requirement of Surge Arrestor in LV Panel System.	Confirmed
27	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item no. 3.17- For Airconditioning system	There are no line item of Air conditioning system in Schedule I and Schedule II however Spare of Air conditioing is mentioned in Schedule I & Schedule II. At the same time Air conditioning & ventilation is part of 1.19 & 2.20 -Civil Work in Schedule IV without any mandatory spare. Please revisit the requirement and suggest the same.	The statement in the clarification request is not correct. Please refer to Schedule I and Schedule II line items 1.19.3, 2.20.2, 2.20.4, 2.20.5, 2.20.6.
28	General	We request to provide quantification of major civil items like excavation, earthwork filling, PCC,RCC, Steel etc.	This is a FIDIC Yellow Book Design Built Contract. Detailed quantities shall be determined by the Bidder.
29	General	The line item for Pre Engineered Building is missing in Price Schedue. We request to confirm for requirement of Pre Engineered Building for GIS & Control room building	For requirements for Pre Engineered Building please refer to Part 2, VII-6 Technical Requirements - Civil Works Clause 1.6.3 For line items in price sheet, please refer to Part 1 Section IV. Bidding Forms, Schedule IV, line items 1.19.4 and 2.20.3.

№	Reference	Clarification Request	Response
30	Prices Schedule No. IV Installation and Other Services- 1.19.1.2 Removal and disposal of existing building	We request to provide the plan and section details and clarify to what extent/level dismantling needs to be done.	Please refer to Response to Clarification Request No. 2, Item 121
31	Schedule No. IV Installation and Other Services- 2.20.1.2.3 and 2.20.1.2.4	The low wall BoQ (Bill of Quantity) item is not described in the scope of work. We request to clarify the scope in bidding documents.	Please refer to Response to Clarification Request No. 2, Item 10
32	Schedule No. V: ESHS Requirements Item No 1.15.1	We request to please clarify the scope of "River training structures" for line item mention in Schedule No. V: ESHS Requirements Item No 1.15.1	Item 1.15.1 refers to ESHS provisions for river training structures. Technical details and characteristics of the retaining wall are provided in Bidding Documents, Part II, section 1.6.13, as well as in Annex D5-22 & D5-26.
33	Part II _Package B , 3 Scope of Supply and Services Clause-3.2.7 Auxiliary Power Supply System	Please specify the backup duration for which the 220V & 48V Battery need to be sized.	Autonomy time shall be minimum 10 hrs.
34	Part II _Package B , 3 Scope of Supply and Services	We do not envisage any supply of remote end Line differential protection relays. Our scope is limited only to the Lekhnath & Damauli substation end. Please confirm	Confirmed, no remote end line differential protection relays are included in the scope.
35	Part II _Package B , 3 Scope of Supply and Services, Control and Protection System	We understand one Bay unit will be connected to the one Central unit which will be having the feature of Main Zone,Check Zone & Breaker Failure . Kindly confirm the same as dual Bay units are not required with one Central unit.	It shall be only and exclusively one central unit to which all field units will be connected. Any bay has one (1) field unit except the bus-coupler bay which has two (2) field units, each on different side of the breaker.

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36	Part II, Section VII-1 Project Description and Scope of Works,	As in the SCMS System Architecture, only gateways has been shown (in Annex D5-14 & Annex D5-15). Instead of giving dual servers & dual gateways seperately, bidder request to confirm acceptance of the dual server cum gateway.	Bidder request is not accepted. Bidder to comply with all the subject related Tender documents and provide for each of the Scope of works Stations (for DAMAULI as well for LEKHNATH) with a set of 2(two) separate redundant Gateways and with 2(two) separate redundant servers.
37	Part II _Package B , 5 Transformers, 5.5 Packing, Shipping and Transport	As per BOQ spare oil shall be minimum 5% of total oil volume of all transformers installed & as per clause 5.5 of Part II_Package B it's 10% of total quantity. We understand that we will supply maximum spare oil as 10% , which includes 5% spare oil mentioned BOQ. Please confirm	Confirmed, for more details, Please refer to Response to Clarification Request No. 3, Item 2
38	General	Please confirm if NIFPES Nitrogen Injection Fire Prevention and Extinguishing System is required for offered transformer.	Nitrogen Injection Fire Prevention and Extinguishing System is not required.
39	Part II _Package B , 3 Scope of Supply and Services, Clause 3.4.1 - Site related investigations	We request to furnish the contour survey report with readings at 5m grid intervals, quantity of cutting and filling and recommendation for soil improvement below retaining wall for estimation and costing.	Please refer to Response to Clarification Request No. 2, Item 1
40	Part I _Package B, Price Schedule No. IV 2.20.1.1.7	We request you to please provide the length and section details for "Access road (3 m wide) from maintenance access gates to area between the 220kV substation platform and the riverbed."	This is to be determined by the Bidder / Contractor subject to approval at design stage.
41	Part II _Package B, Clause-3.10.1 Operating duty and performance for CB and Technical Data Sheets	As per the referred clause, "Circuit breakers shall be complete with spring or hydraulic-operated mechanisms". However, as per technical datasheet, Sl. No. 3.2.60 & 4.2.58, only Spring-charged mechanism is mentioned. We understand that both spring & hydraulic operated mechanisms are acceptable. Please confirm	Confirmed. In case hydraulic operating mechanism is foreseen, technical information and technical data of the drive mechanism shall be provided with the tender.

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42	Part II_Package B, VII-5 Technical Specifications, Clause-3.14, Voltage Detectors	The capacitive voltage detectors as mentioned in the referred clause are applicable only for MV switchgears (33kV & below) and are not applicable for EHV GIS (132kV & above). Please Confirm	Please refer to Response to Clarification Request No. 2, Item 76
43	Part II, VII-5 Technical Specifications, Clause-3.19.1, Gas compartments	We request NEA to accept the Busbar disconnector & Earth switch as part of the busbar gas compartment. Please confirm.	Confirmed for 132kV GIS only. Please refer to Part II, VII-5, Clause 3.3 Page 48 (three phase design).
44	Part II_Package B, VII-5 Technical Specifications, Clause-3.6, Temperature rise for GIS	GIS being located indoors in a properly ventilated environment, the current rating of the 220kV & 132kV GIS as mentioned in the technical datasheets will be guaranteed at 40 Deg. C for Lekhnath, respectively 50 Deg. C for Damauli in line with IEC 62271-203 & IEC 62271-1. Please confirm.	The current rating of the 220kV & 132kV GIS shall be guaranteed at 40 Deg. C for both, Lekhnath and Damauli, as defined in Part 2, Section VII-8 Technical Data Sheets, clauses 3.1.36 & 3.1.37. Air Conditioning to be provided accordingly, as defined in VII-1 Project Description and scope of works.
45	General	The creepage mentioned for the bushing as 43.3 mm/ kV (USCD) i.e. 31 mm/kV SCD. Please confirm.	Please refer to Response to Clarification Request No. 3, Item 40
46	General	In case of any discrepancies between General Specification, Technical specification Data sheet, Drawings & BPS, please confirm the order of precedence to be followed.	The precedence of the documents shall be as defined in Part 3, Section 9, Specific Provisions 1.5 / Section X. Contract Forms.
47	General	We understand that direction of incoming & outgoing lines for all voltage levels shall be as per bid stage layout only and shall not be changed. Please confirm.	Confirmed.
48	General	Baywidth for all voltage levels, distances between transformers/buidings roads/equipments shall be decided by the bidder only based on technical requirements during detailed engineering. Please confirm.	The building and substation layouts in the bidding document are indicative for orientation purpose and shall be further developed and optimised or increased based on proposed equipment, subject to approval. Number and size of non-technical rooms in the tender layout constitute minimum requirements and shall not be reduced. Adequate clearance for maintenance and operation must be ensured.

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49	General	The Bidder understands that since the land acquisition for the complete project is in NEA scope and therefore any social impact, compensation of any kind,settlement with habitats etc. shall not be in Bidders scope. The ESMMP clause shall be in Bidders scope only limited to the the execution period within the scope of works and land acquired by NEA. Please confirm.	Please refer to Response to Clarification Request No. 2, Item 76
50	General	After Route Survey we observed that at 2-3 location Bypass arrangement, Civil works will be required on exiting River crossing for Transformer movement. For information purpose, 2 nos. foundations of one RCC Bridge are cracked. And at another location due to land slide Double girder RCC Bride are not in good shape. Also there may be transportation height limitation for transformers. Bidder request to share the route survey report, NEA has conducted for this project for reference purpose	Please refer to Response to Clarification Request No. 3, Item 52
51	Part II_Package B Clause 3.2.3, 3.3.1 & 3.3.3	We request you to please elobrate about the requirement of "Future Arc Detection" for GIS. Further we understand that, bidder needs to provide only the provision of the sensors . Please confirm.	Please refer to Response to Clarification Request No. 2, Item 81
52	Part II_Package B Part-2, VII-5 Technical Specifications, Clause no. 16.3	As per Technical Specification We understand that, Fire Detection & Alarm System shall be Conventional Type. Please confirm.	Addressable Fire Detection & Alarm System shall be provided.
53	Part II_Package B Part-2, VII-5 Technical	Please note that Auxilliary Hook is not possible to provide in Single Girder EOT Crane. Hence we understand that, 6Ton Single Girder EOT Crane shall be provided Main Hook only. Please confirm.	Subject to decision during design stage.

№	Reference	Clarification Request	Response
	Specifications, Clause no. 3.27.3		
54	Part II _Package B , Section V Technical Specifications - GIS, Clause 3.3 - In the event of leakage from any compartment, the equipment shall withstand rated voltage with SF6 at atmospheric pressure.	We understand that whenever there is leakage from any compartment, alarm indictaions shall be provided to cater the situations. Thus, we do not forsee any such situtation wherein the GIS is require to withstand the rated volatge at atmospheric pressure. Thus, the same is not envisaged. Please Confirm.	Please refer to Response to Clarification Request No. 2, Item 66
55	Part II _Package B , Section V Technical Specifications -GIS Clause 3.3- Local Control cubicle placed next to equipment for control….	We envisage that Local control pannel to be of inetgrated type considering advantages like ease of operation, reduced building and cable sizes. Thus, the same can be offered. Request NEA to check this requirement and clarify.	Please refer to Response to Clarification Request No. 2, Item 67
56	Part II _Package B , Section V Technical Specifications - GIS, Clause 3.8 Each enclosure shall be tested	We envisage that Local control pannel to be of inetgrated type considering advantages like ease of operation, reduced building and cable sizes. Thus, the same can be offered. Request NEA to check this requirement and clarify.	Please refer to Item 55 above

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	and stamped by the inspecting authority issuing the test certificate that shall be independent from the manufacturer.		
57	Part II _Package B , Section V Technical Specifications - GIS, Clause 3.9 Each bay shall have at both ends the barrier spacers for disabling the internal arc propagation over the bus bar.	If the busbar and busbar disconnetcor forms separate gas compartment, the chances of fault in busbar is nil. Thus, there is no internal arcs. Hence, it is not necessary to have gas barriers at end of each busbar. With this design required service continuity is complied. We therefore requst NEA to keep it to the discretion of GIS OEM's the decision of gas barriers in busbar.	Please refer to Response to Clarification Request No. 2, Item 70
58	Part II _Package B , Section V Technical Specifications - GIS, Clause 3.10.3 Circuit breakers and all other metal-enclosed switchgear modules like bus ducts, disconnectors etc.	Referring to the said clause and General Technical Requirement, we understand that only type tests that include short-circuit and dielectric verification tests for CB, DS, ES, and HSES are to be performed from an STL lab. Please confirm that the undertanding is correct.	Please refer to Response to Clarification Request No. 2, Item 71

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	shall be covered by type test certificates and complete test reports issued by an accredited internationally recognized independent short circuit testing laboratory, as defined in VII-3 General Technical Requirements, Clause 11.2.1 to certify the satisfactory operation of the circuit breakers at duties corresponding to the rated making and breaking capacities of the circuit break-ers.		
59	Part II _Package B , Section V Technical Specifications - GIS, Clause 3.11 It shall be possible with such	We do not envisage any such HV testing on outgoing feeders. Kindly Check the requirement.	Please refer to Response to Clarification Request No. 2, Item 72

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	partitioning and with the disconnector compartments maintained at full gas pressure, to carry out high voltage insulation withstand tests on outgoing circuits, without taking adjacent equipment out of service.		
60	Part II _Package B , Section V Technical Specifications - GIS, Clause 3.11.3 Additionally, to switchgear internal interlocking, the feeder high speed earthing switches shall be interlocked against closing to voltage .....in local control cubicles if	We understand that the said interlocks are to be provided for line feeders only. Referring to SLD, we understand that all overhead line feeders have AIS CVT. The required interlocks can be complied using the signal of CVT from CRP. Providing this signal, and associated cables to bring this signal from CRP to LCC shall be in EPC/Customer scope. For 132 kV GIS, the cable bays are terminating trafo feeders, andwe undertsand that any capacitive sensors are not required.	Confirmed, the described interlocks are to be provided for line feeders only. Associated cables to achieve this are included in the scope of the Contract.

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	available for the specified voltage level.		
61	Part II _Package B , Section V Technical Specifications - GIS, Clause 3.11.3 CTs for protection shall not be used for metering. CTs for protection and metering shall be physically separate.	For GIS the CT cores for measuring and protection are physically separate and are placed in same enclousre. This design is most suitable considering CT feasibilty and is widely accepted. We request NEA for it confirmation.	Please refer to Response to Clarification Request No. 2, Item 73
62	Part II _Package B , Section V Technical Specifications - GIS, Clause 3.13 Mechanical shock recorders shall be fitted to VTs prior to dispatch from the factory, to indicate how the VT was handled during transit and to determine if detailed inspection is required at site.	Shock indicators shall be provided on VT which shall help to detect any transport damage. This pratice is OEM standard and is widely followed sucessfully. We request NEA for it confirmation.	Please refer to Response to Clarification Request No. 2, Item 74

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63	Part II _Package B , Section V Technical Specifications - GIS, Clause 3.14 Voltage Detectors (if any)	We understand that the same is not applicable for GIS equipment and is not offered. Kindly Confirm	Please refer to Response to Item 42 above.
64	Part II _Package B , Section V Technical Specifications - GIS, Clause 3.16.1 For voltages of Ur = 245 kV and above bushings shall be equipped with corona rings designed for the specified voltage level.	For 245 kV voltage levels, we do not envisage corono rings. Kindly Confirm the requirement.	Please refer to Response to Clarification Request No. 2, Item 78
65	Part II _Package B , Section V Technical Specifications - GIS, Clause 3.19.1 Bus bar enclosures shall be segregated into gas-tight compartments…….. its subsequent	The gas filling and evacuation time depends on the type of gas handling cart used. Considering the scope of bays, the time required for evacuation is not very large. Thus, we do not envisage any such partitions in busbars. Kindly Confirm.	Please refer to Response to Clarification Request No. 2, Item 79

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	vacuum treat-ment and refilling.		
66	Part II _Package B , Section VII-8 Technical Data Sheet 3.1.27 Type of enclosure (bus bar/feeder) - 1-phase / 1-phase	(i) The 245 kV GIS busbars are normally three phase encapsulated. This design is sucessfully type tested, globally offered, and is in hastle free operation. We request NEA to check and confirm the requirement. (ii) As per PSR document, 3 phase busbars are accpeted. Thus, we understand that 3 phase busbars are accepted.	Please refer to Response to Clarification Request No. 2, Item 80 / Please refer to Amendment No. 2
67	Part II _Package B , PSR lot of provision (light sensor) for future arc detection	For offered GIS, we have flanges where in we have provision by default. There we will give blanking plate at this moment. Later during execution stage, if arc sensors are required these blanking plates will be removed we will place arc sensors there. We undertsand that this is in line with customer requirement.	Please refer to Response to Clarification Request No. 2, Item 81
68	Part II _Package B , Section V Technical Specifications - GIS, Clause 3.9 End of bus bar will be equipped with barrier spacer, I element and end cover to enable the as-sembling of the future bay without SF6 gas evacuation under the atmospheric pressure at the	If for offered 245 kV GIS, the configuration is such that during future extension all existing feeders and one busbar shall be in service, and only the busbar is required to be evacuated of the existing GIS. Thus no gas barriers and islatong link is required. If for offered 132 kV GIS, the configuration is such that so as to keep one busbar and adjacent feeder in serive we have to give one buffer module with isolaing link, and that shall not need evacuation of any existing feeder. We undertsand that this shall meet NEA expectations. Request concurrance on same.	Please refer to Response to Clarification Request No. 2, Item 82

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	neighboring gas compartment.		
69	LCC	We request customer to kindly accept proposal of integrated LCC considering its advantages like minimum space requirement, lesser cable length, and ease of operation.	Please refer to Item 55 above
70	Part II _Package B , VII-6 Technical Requirements - Civil Works, Clause 2.8, Concrete Works, P.No: 51	Please confirm the grade of concrete.	Please refer to Response to Clarification Request No. 2, Item 38
71	Part II _Package B , VII-6 Technical Requirements - Civil Works, Clause 2.8.12, Reinforcing Steel, P.No: 59	Please confirm the grade of Reinforcing Steel.	Please refer to Response to Clarification Request No. 2, Item 37
72	Part II _Package B , VII-4 Technical Requirements - Civil Works, Clause 2.2.1, Concrete Works, P.No:6	Basic wind speed is 50 m/s . Please confirm	Please refer to VII-4, General Technical Requirements and VII-9 Annexes D4-3 and D5-16.
73	Part II _Package B , VII-4 Technical Requirements - Civil Works, Clause 2.2.1,	Seismic Zone is considered Zone 5. Please Confirm	Please refer to Part 2, VII4 Particular Technical Requirements, Clause 2.2 and D4-3 Updated GTI Report and to Response to Clarification Request No. 2, Item 58.

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	Concrete Works, P.No:6		
74	Part II _Package B , VII-6 Technical Requirements - Civil Works, Clause 1.4, Pg No 10	Indian Codes being more conservative shall be used for Structure & RCC design as followed for earlier Nepal Projects. Please confirm	Please refer to VII-3 General Technical Requirements, Clause 3: "Other internationally accepted standards may be accepted only if the Contractor provides sufficient evidence that these alternative standards proposed ensure a quality equal to or higher than the standards mentioned above and such alternative standards are subject to approval by the Engineer."
75	Part II _Package B , VII-6 Technical Requirements - Civil Works, Clause 1.4, Pg No 10	For Wind load calculation on structures IS 875 Part 3 :2016 shall be used. Please confirm	Please refer to Item 74 above.
76	Part II _Package B , VII-6 Technical Requirements - Civil Works, Clause 1.4, Pg No 10	For Member & connection Design IS 802 Part 2 & IS 800:2007 shall be followed. Please confirm the same.	Please refer to Item 74 above.
77	Part II _Package B , VII-6 Technical Requirements - Civil Works, Clause 1.4, Pg No 10	For RCC Design IS 456:2000 & IS 13920 :2016 shall be used alomg with SP-34 for reinforcement detailing.	Please refer to Item 74 above.
78	Part II _Package B , VII-6 Technical Requirements - Civil Works, Clause 1.4, Pg No 20	FOS for structure design shall be considered as 2.0 for NC & 1.5 for SC condition.	Clarification request is not clear, meaning of "FOS" is not clear and. there is no clause 1.4 on page 20 of VII-6 Technical Requirements.

№	Reference	Clarification Request	Response
79	Part II _Package B , VII-6 Technical Requirements - Civil Works, Clause 1.6.10, Pg No 23	The Thickness of firewall to be considered is not clear. Please clarify the same.	This is to be determined by the Bidder / Contractor based on the requirements in VII-6, subject to approval at design stage.
80	Part II _Package B , VII-6 Technical Requirements - Civil Works, Clause 1.6.9.2, Pg No 21	Please confirm the number of BOT's to be considered.	Clarification request (meaning of BOT's) is not clear.
81	Part II _Package B , VII-6 Technical Requirements - Civil Works, Clause 1.6.15, Pg No 28	Access roads is in scope of Client. Please confirm	Main access road, is to be provided, please refer to VII-1 Project Description and Scope of Works, Clause 3.4.6.1, VII-9 Annexes Annex D5-24 "Access road (Scope of Substation Package B)" and VII-9 Annexes Annex D5-24.
82	Part II _Package B , VII-6 Technical Requirements - Civil Works, Clause 1.6.6.2, Pg No 19	For Structure Design of PEB Wind load shall be critical. Hence normal connection design as per IS 800:2007 or other equivalent code shall be followed.	Please refer to Item 74 above.
83	Part II _Package B , Altitude Specification / Data sheets	As per specification, Altitude is les than 1000 m for all offered transformer at all sites. Please reconfirm	Please refer to Response to Clarification Request No. 3, Item 1
84	Part II _Package B , BOQ 2.5.1 & data sheet cl 6.1.2	Rating specified for 63 MVA, 220 /132 seems for three phase Auto Transformer against mentioned Three phase power Transformer. Please recheck and confirm	Clarification request is not clear. 63 MVA, 220 /132 kV Power Transformer shall be provided, as defined in data sheet item 6.2.1 and price sheet item 2.5.1.

№	Reference	Clarification Request	Response
	63 MVA Auto transformer or BOQ 2.5.1 & data sheet cl 6.1.2 63 MVA Power Transformer		
	Part II _Package B , Vector group & Stabilizing winding for 63 MVA, 30 MVA Data sheets 6.1.2.1.8 ,6.1.2.1.10 VII-1 3.3.5.1	For Power Transformer 63 MVA, & 30 MVA vector group Is mentioned as YNyn0+d & also as per VII-1 cl 3.3.5.1, 3.3.5.2 tertiary is mentioned as Stabilizing type. However, the voltage and MVA rating of stabilizing winding is not mentioned -Kindly provide the details of the same.	The data of the stabilizing winding are to be determined by the Bidder / Contractor as part of the transformer design.
86	Part II _Package B , Technical Data Sheets 132kV 6.1.2.1.13 ; 6.1.2.1.14 ; 6.1.3.1.13 ; 6.1.3.1.14 and Graded insulation for 220kV	In the Technical data Sheet of serial numbe 6.1.2.1.13 ; 6.1.2.1.14 , it is mentioned as " primary : Uniform & secondary : Uniform " However, as per Technical data Sheet serial number 6.1.2.5.7, 6.1.3.5.7 for 220kV & 132kV it is mentioned as graded with insulation class of 52 kV (250kVp/95kV rms). Therefore, can we consider graded insulation for HVN winding. Please confirm	Please refer to Response to Clarification Request No. 3, Item 5
87	Part II _Package B , Technical Data Sheets Flux density 6.1.2.16.2; 6.1.3.16.2; 6.1.4.15.2	As per mentioned serial number, "magnetic flux density at rated voltage and frequency Max 1.60". However as per cl 6.1.2.2.3, 6.1.3.2.3, 6.1.4.2.3 it is ≤ 1.65 Tesla. Please check and confirm final requirements	Please refer to Response to Clarification Request No. 3, Item 6

№	Reference	Clarification Request	Response
88	Part II _Package B, Flux density and the magnetizing current VII-5 , 5.2.2.1	As per this clause " when operating under the most onerous conditions, the flux density in any part of the magnetic circuit does not exceed 1.8 T and the magnetizing current must not exceed 5% of the rated load current at normal rated voltage. " Here most onerous condition is not specified so, we understand most onerous condition is +/- 10% combine voltage and frequency variation & So, depending on that magnetizing current will be higher than specified values.	Please refer to Response to Clarification Request No. 3, Item 7
89	Part II _Package B, RIP Bushings & Terminations 6.1.2.9.2 ; 6.1.3.9.3 ; 6.1.4.9.2	i. We understand RIP type bushing are required for 52 kV and above voltage level similar to earlier NEA projects. Please confirm. ii. We have considered Termination for HV, IV, TV & LV side OIL-AIR Bushings- Please confirm	Please refer to Response to Clarification Request No. 3, Item 8
90	Part II _Package B Impedance 24/30 MVA Transformer 6.1.3.7	Considering the extreme tap impedance values, the impedance requirement at normal tap shall be 12.5 % against 10.5% Please check and confirm impedance at normal and extreme tap with base MVA Nominal tap : 10,5 Maximum tap : 15,4 Minimum tap : 10,3	Please refer to Response to Clarification Request No. 3, Item 9
91	Part II _Package B , Technical Data Sheets Fault level for 36kV and 11kV 6.1.3.11.6 ; 6.1.3.13.6 ; 6.1.4.10.6 ; 6.1.4.11.6 ; 6.1.4.6.2	As per mention Serial number of Technical Data Sheet, for 36 kV rated thermal short time current is 40 kA & as per 6.1.3.6.2 / 6.1.4.6.1 it is 25kA and also as per VII-4 clause 3 the value is 25kA. So, we will consider 25kA for 36kV and 11kV -Please confirm	Please refer to Response to Clarification Request No. 3, Item 10
92	For power transformer 63	As its green filed project we understand no parallel operation required with any existing Transformer. If parallel operation is required with any existing transformer. Please give existing	Please refer to Response to Clarification Request No. 3, Item 11

№	Reference	Clarification Request	Response
	MVA,30 MVA and 8 MVA Parallel operation is required with any existing transformer Specification	transformer rating plate (Rating, Vector group, Ratio, OLTC tapping range), Existing transformer impedances (Max. voltage tap, Normal volt. tap, Min. Volt. tap). Existing OLTC, AVR details and existing OLTC schematics.	
93	Part II _Package B , Technical Data Sheets 6.1.4.1.15 Vector group & Stabilizing winding for 8 MVA	The vector group mentioned is Dyn11 for 6/8 MVA , so we understand that tertiary is not required for 6/8 MVA as its vector group already have Delta winding & also as per VII-1 cl 3.3.5.3 its not mentioned. Therefore, we will not consider stabilizing/ tertiary winding for 8 MVA. Please check and confirm	Please refer to Response to Clarification Request No. 3, Item 12
94	Transport Dimensions or transport weight limitations VII-1 3.1.10.5	Is their any Transformer overall Dimension limitations & Transport Dimensions or transport weight limitations ? If yes please specify	This shall be determined as part of the transport study to be prepared by the Bidder
95	Part I _Package B All major equipment and components shall be type tested VII-1 1.2.1	As per this clause " All major equipment and components shall be type tested, in accordance with the applicable international standards (their latest versions, including all amendments), by an internationally ac-credited independent testing laboratory, not associated with the respective manufacturer. Type tests performed at a manufacturer's laboratory and witnessed by an accredited independent third-party are also acceptable. Accreditation to the testing laboratory/ third party shall be given by a signatory member of International Laboratory Accreditation Cooperation (ILAC)." # Manufacturer's test lab is NABL accredited & as per NABL : In order, to enable global acceptance of its accredited Conformity	Please refer to Response to Clarification Request No. 3, Item 13

№	Reference	Clarification Request	Response
		Accreditation Bodies (CABs),NABL maintains linkages with the international bodies like International Laboratory Accreditation Co-operation (ILAC) and Asia Pacific Accreditation Co-operation (APAC). NABL has obtained ILAC MRA for Reference Material Producers (RMP) accreditation program (ISO 17034) also, in addition to existing MRA in Testing (ISO/IEC 17025), Medical (ISO 15189),Calibration (ISO/IEC 17025) laboratories and Proficiency Testing Providers (PTP) accreditation program (ISO/IEC 17043)» We request you to please confirm the following : i. Transformer Type test can be carried out at test lab which is NABL accredited ii. For type test of the components, the type test reports as per supplier(s) similar to previously executed NEA projects ia acceptable. iii. Reference type test can be provided from NABL accredited lab witnessed by any of end customer only .	
96	Part I _Package B No load , load loss and Aux. loss	We understand losses shall be offered as per capitalization rates given in 5.4.2 Evaluation criteria.	Please refer to Response to Clarification Request No. 3, Item 14
97	Part II _Package B, End plates of the assembly and clamp structure shall be of a nonmagnetic VII-5 , 5.2.2.1	The bolts, nuts, and end plates of the assembly and clamp structure can be of a nonmagnetic /magnetic type as per standard design practices. Kindly Confirm.	Please refer to Response to Clarification Request No. 3, Item 15
98	Part II _Package B,	Kindly allow the use of wood as per standard design practices	Please refer to Response to Clarification Request No. 3, Item 16

№	Reference	Clarification Request	Response
	Use of timber for insulation parts subject to test voltage stresses equal to or higher than LI: 550 kV and/or AC: 230 kV shall not be accepted. The Contractor shall be responsible for the selection of insulation material. VII-5 , 5.2.2.1, 5.2.2.2		
99	Part II _Package B, ZnO protective elements VII-5 , 5.2.2.2	For higher voltages ZnO protective elements may required to reduces stresses in the winding. So, can we use ZnO only if necessary as per design requirements. Kindly Confirm	Please refer to Response to Clarification Request No. 3, Item 17
100	Part II _Package B, Impedance voltages on extreme tappings VII-5 , 5.2.2.2	As per this clause " Impedance voltages on extreme tappings shall not deviate from those for principal tappings by a percentage value of more than two third (2/3) of the difference in percentage tapping factor between the concerned tappings and the principal tappings" However, we understand that this depend based on tap range & different rating so we will furnish extreme tap impedance values as per standard design. Kindly Confirm	Please refer to Response to Clarification Request No. 3, Item 18
101	Part II _Package B, hot dip galvanized steel the minimum thickness of galvanizing shall	We confirm C5M environment condition as per data sheet HDG and its thickness (eg for radiator) where applicable based on standard practices only but we confirm C5M requirement as per specifcation	Please refer to Response to Clarification Request No. 3, Item 19

№	Reference	Clarification Request	Response
	be 100 µm. VII-5 , 5.2.2.6		
102	General	Oil shall be inhibited Mineral Oil as per IEC 60296 against mention Mineral / Bio-based oil (in accordance with IEC 61099)	Please refer to Response to Clarification Request No. 3, Item 20
103	Part II _Package B, OLTC Short circuit current	As per this clause " The on-load tap changer shall be designed to withstand maximum short-circuit current as specified for the transformer" As OLTC will be installed in phase (winding) so, Short circuit current will depend on transformer self impedance only so, OLTC will have SC withstand current accordingly. Kindly Confirm our understanding is correct	Please refer to Response to Clarification Request No. 3, Item 21
104	Part II _Package B, OLTC First maintenance, Second maintenance and replacement, Third maintenance	'OLTC offered is Vacuum type Make ABB/ Hitachi, Sweden as per specification and maintenance(first, second, third), replacement period is based on OLTC operational ,load etc. so same same shall be as per OLTC supplier. ABB/ Hitachi, Sweden OLTC is already supplied in many NEA projects. Kindly Confirm if its acceptable	Please refer to Response to Clarification Request No. 3, Item 22
105	Part II _Package B, Regulators shall be installed in a dedicated AVR cabinets	The regulators /AVR shall be installed in RTCC (in control room) against dedicated AVR cabinets installed inside the control equipment room. Kindly accept.	Please refer to Response to Clarification Request No. 3, Item 23
106	Part II _Package B, Transformer condition monitoring	We understand that as per Technical Data sheet clause 6.1.3.21.2, 6.1.4.20.2, 6.1.2.21.2 following is not required/ Not applicable for 63 MVA,30 MVA and 8 MVA Transformer . Please confirm Transformer condition monitoring & as described in more detail below and defined in the Technical Data Sheets, including: - Top Oil and winding temperatures (FO) - DGA (>3 gases) and moisture in oil - ambient temperature - HV and MV windings current	Please refer to Response to Clarification Request No. 3, Item 24

№	Reference	Clarification Request	Response
		- Calculations: Winding hot spot, bubbling temperature, ageing rate, water content in winding paper insulation, cooling system efficiency. & also PD measurements for Bushing/ Transformer	
107	Part II _Package B, Oil level indicators with separate sensor	Oil level indicators shall be of magnetic type only & without any separate sensor and indicating unit. Please confirm	Please refer to Response to Clarification Request No. 3, Item 25
108	Part II _Package B, FOS FOS probe & channel details required	FOS type test report can be provided during detail engg as per previously executed NEA orders. Kindly Confirm	Please refer to Response to Clarification Request No. 3, Item 26
109	Part II _Package B, Part I _Package B, Conformity of the Facilities Requirements " the Bidder/Contractor shall submit a proof that the sourcing transformer factory has already successfully demonstrated the ability to withstand the dynamic effects of short circuit by test for at least	We request to confirm the following: Type test certificates of similar transformers, In case the Bidder/Contractor decides to demonstrate the ability to withstand the dynamic effects of short circuit by calculation (IEC60076 -5, subclause 4.2), the Bidder/Contractor shall submit a proof that the sourcing transformer factory has already successfully demonstrated the ability to withstand the dynamic effects of short circuit by test for at least one similar and or Higher transformers (in terms of Voltage and Rating). This proof shall be submitted together with the Technical Bid. However, it does not require to prove the similarity of offered transformer with respect to type tested one. Reference type tests report (except Dynamic Short Circuit Test) of similar or higher rating transformer shall be submitted for tests conducted at our own laboratory (NABL Accredited) witnessed by any of the customer.	The request of the bidding document shall be followed: Bidder/Contractor shall submit a proof that the sourcing transformer factory has already successfully demonstrated the ability to withstand the dynamic effects of short circuit by test for at least one similar and or Higher transformers (in terms of Voltage and Rating). This proof shall be submitted together with the Technical Bid.

№	Reference	Clarification Request	Response
	one similar transformers (in terms of Voltage and Rating)."	We confirm to perform design review of the offered transformer as per " IEC60076-5 A.3.3.3 Design review by check against manufacturer's design rules for short circuit strength".	
110	Measurement of no-load loss and current and time	No-load loss and no load current test will be based on IEC 60076 for 90% to 110% voltage. Kindly Confirm	Please refer to Response to Clarification Request No. 3, Item 28
111	Seismic withstand capability of the complete cubicle	Kindly confirm the following i. For Transformer marshalling box and RTCC, seismic withstand capability is not considered / applicable. ii. Type test report is not required for above mentioned test. iii. RTCC & Mbox as per NEA previously executed orders is acceptable	Please refer to Response to Clarification Request No. 3, Item 29
112	General Constant ohmic type requirements	In previously NEA executed projects,there is requirement of constant ohmic type impedance. However, as per Tender document specification it seems there is no requirement of constant ohmic type impedance. Kindly confirm	Please refer to Response to Clarification Request No. 3, Item 30
113	General Digital RTCC	In previously NEA executed projects,there is requirement of Digital RTCC . However, as per Tender document specification it seems there is no requirement of Digital RTCC . Kindly confirm	Please refer to Response to Clarification Request No. 3, Item 31
114	a) Online Dissolved Gas (Multi-gas) and Moisture Analyzer b)On-line insulating oil drying system (Cartridge type) c) Digital RTCC panel e) oil storage tank	We understand for Power Transformer except FOS no special accessories, DGA,NIFPES are required. Please confirm	Please refer to Response to Clarification Request No. 3, Item 32

№	Reference	Clarification Request	Response
	d) On line dissolved Hydrogen and Moisture Measuring Equipment e) Nitrogen Injection Type Fire Prevention & Extinguishing System f) Managed Ethernet switch, LIU patch cords etc. g) Test Kit BDV Kit (if specified in BPS)as per Annexure-H of specification Portable DGA Kit h) Oil Sampling Bottle Oil Syringe l) Hand tools		
115	General	We don't find any make list for transformer manufacturer's .We request you to please provide the make list of transformer manufacturer's.	Please refer to Response to Clarification Request No. 3, Item 33
116	Section III. Evaluation and	Please clarify that "all the 03 contracts cumulatively having a minimum value of USD 8.00 Mn" or "each contract must be having a minimum value of USD 8.00 Mn".	The minimum value of USD 8,000,000.00 shall be intended as per contract.

№	Reference	Clarification Request	Response
	Qualification Criteria Criteria No. 4.2 (a)		
117	Section III. Evaluation and Qualification Criteria Criteria No. 4.2 (a)	Request for the Amendment in line with your previous bids: Similar contracts satisfactorily completed as a prime contractor or joint venture member, in at least 3 contracts 220kV or above AIS or GIS Substations, between 1st January 2014 and application submission deadline of minimum value USD 8,000,000.00 as below: * Two of the contracts shall be carried out that have been successfully or are substantially completed outside of the bidder's home country in Asia and that are similar to the proposed works. * One of the contracts shall be carried out in Nepal that have been successfully or substantially completed at the day of issuance of this tender request. The Substantial completion of the projects here shall mean the 80% completion of total scope of works in all respect (technical as well as financial) and is applicable for the ongoing projects only.	The request is not a request for clarification pursuant to Parti I Bidding Procedures, Section I. Instructions to Bidders, Item 7. It is effectively a request of amendment to the Bidding Documents and as such it cannot be entertained.